Appl'n No.: 10/567,074
Title: Lafora's Disease Gene
Inventors: Stephen W. Scherer, et al.
Annotated Sheet

WO 2005/0   4/001449

6/15

Fig 6A

```
   1 atggcggccg aagcctcgga gagcgggcca gcgctgcatg agctcatgcg cgaggcggag

  61 atcagcctgc tcgagtgcaa ggtgtgcttt gagaagtttg gccaccggca gcagcggcgc

 121 ccgcgcaacc tgtcctgcgg ccacgtggtc tgcctggcct gcgtggccgc cctggcgcac

 181 ccgcgcactc tggccctcga gtgcccattc tgcaggcgag cttgccgggg ctgcgacacc

 241 agcgactgcc tgccggtgct gcacctcata gagctcctgg gctcagcgct tcgccagtcc

 301 ccggccgccc atcgcgccgc ccccagcgcc cccggagccc tcacctgcca ccacaccttc

 361 ggcggctggg ggaccctggt caaccccacc ggactggcgc tttgtcccaa gacggggcgt

 421 gtcgtggtgg tgcacgacgg caggaggcgt gtcaagattt ttgactcagg gggaggatgc

 481 gcgcatcagt ttggagagaa gggggacgct gcccaagaca ttaggtaccc tgtggatgtc

 541 accatcacca acgactgcca tgtggttgtc actgacgccg gcgatcgctc catcaaagtg

 601 tttgattttt ttggccagat caagcttgtc attggaggcc aattctcctt accttggggt

 661 gtggagacca cccctcagaa tgggattgtg gtaactgatg cggaggcagg gtccctgcac

 721 ctcctggacg tcgacttcgc ggaaggggtc cttcggagaa ctgaaaggtt gcaagctcat

 781 ctgtgcaatc cccgaggggt ggcagtgtct ggctcaccg gggccattgc ggtcctggag

 841 cacccctgg ccctggggac tggggtttgc agcaccaggg tgaaagtgtt tagctcaagt

 901 atgcagcttg tcggccaagt ggatacctt gggctgagcc tctactttcc ctccaaaata

 961 actgcctccg ctgtgacctt tgatcaccag ggaaatgtga ttgttgcaga tacatctggt

1021 ccagctatcc tttgcttagg aaaacctgag gagtttccag taccgaagcc catggtcact

1081 catggtcttt cgcatcctgt ggctcttacc ttcaccaagg agaattctct tcttgtgctg

1141 gacacagcat ctcattctat aaaagtctat aaagttgact gggggtgatg ggctgggggtg

1201 ggtccctgga atcagaagca ctagtgctgc cattaatgaa ttgtttaacc ctggataagt

1261 cacttaaact catctatcca ggcagggata attaaaacca tctggcagac ttacaaagct

1321 tgggacagtt attggagatt aatctaccat ttattgaatg catactctgt gcaaggaaat

1381 ttgcaaatat tagcttattt aatctgtact atccagtgag gtaatttctt ccccccaag

1441 atagagtcaa gctctgtcac ccaggctgga gtgcagaagc atgatcacag ctcactacag
```

SEQ·ID NO: 1

Appl'n No.: 10/567,074
Title: Lafora's Disease Gene
Inventors: Stephen W. Scherer, et al.
Annotated Sheet

WO 2005/01   J/001449

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Fig 6B

EPM2B protein sequence

MAAEASESGPALHELMREAEISLLECKVCFEKFGHRQQRRPRNLSCGHVV
CLACVAALAHPRTLALECPFCRRACRGCDTSDCLPVLHLIELLGSALRQS
PAAHRAAPSAPGALTCHHTFGGWGTLVNPTGLALCPKTGRVVVVHDGRRR
VKIFDSGGGCAHQFGEKGDAAQDIRYPVDVTITNDCHVVVTDAGDRSIKV
FDFFGQIKLVIGGQFSLPWGVETTPQNGIVVTDAEAGSLHLLDVDFAEGV
LRRTERLQAHLCNPRGVAVSWLTGAIAVLEHPLALGTGVCSTRVKVFSSS
MQLVGQVDTFGLSLYFPSKITASAVTFDHQGNVIVADTSGPAILCLGKPE
EFPVPKPMVTHGLSHPVALTFTKENSLLVLDTASHSIKVYKVDWG

SEQ ID NO: 2

9/15

Fig 7A

Promoter (5') sequence:

```
   1  CCCCAAGGCC CCCCCGGCCC CCAGGCAACC CCAGGCCCCC AGGCAACCCA
  51  AGGCCCCCCG GCCCCAAGCC CCCCAGGTTC CCGGCCCCAA GAACCAAGCC
 101  CCCCGGCCCC CCGCCCCCAG CACCCAGCAC CAAGCCCCCG CCCCCCGCCC
 151  CAAGCACCCA GCCCCAGCAC CCAGCCCCCG CCCCAGCCCC AGCCCCAGCA
 201  CCCAGCCCCC GCCCCAGCAC CCAGCCCCAG CACCCAGCCC CCGCCCCAGC
 251  CCCAGCCCCC GTCCCCCCCC CCAGCACCCA GCCCCAGCCC CAGCAGCAGC
 301  ACCCAGCAGG GGACTGCAAA GCGTAGGCTA CCCCAGGTGG AACACCGTGT
 351  TCTAGTTTTG CTTTGCCGTT TGCAGCCTGG GCGATCGGGG GCCACCGCTC
 401  GAGCCTGTTT CCCGTCGCGG AAAGCGGAGC CGCCCCGCCC CGCCCCCCGC
 451  CTGCCTGAAG GTCACGGGCC TGGGCCTGCG GCGCGCGGTG CGGCCCGCGA
 501  GCGTCCGCTC CCGCGCCCTC CGCAGTCAGC GCCCGCCCGC CCGCCGGGGG
 551  ACCGCAGGCC GCGGCCGAGA GGCTGCGCGC TGCGCCCGCG ACGTCAGGCC
 601  CCGCCCCGCC CCGCCCCGCC CCGTGACCGG CCCCGGCCCC GGCCCCGGCC
 651  CCGGCCCCGG ACCGAGCGGC GCCCGCGGGA GCGGCGGCGG CCGCGCG
```

Coding sequence:

```
         ATG
 701  GGGGCCGAAG CGGCGGGGAG CGGGCGGGCG CTGCGGGAGC TGGTGCGCGA
 751  GGCCGAGGTC AGCTTGCTCG AGTGCAAGGT GTGCTTCGAG AGGTTCGGCC
 801  ACCGCCAGCA GCGGCGCCCG CGCAACCTGC CCTGCGGCCA CGTGGTGTGC
 851  CTGGCCTGCG TGGCGGCCCT GGCGCACCCG CGGACGCTGG CCCTGGAGTG
 901  CCCCTTCTGC CGCCGGGCCT GCCGCGGCTG CGACACCAGC GACTGCCTGC
 951  CGGTGCTTCA CCTCCTGGAG CTCCTGGGCT CGGCGCTGCG CCCAGCCCCC
1001  GCCGCCCCCC GCGCCGCCCC CCGCGCCGCC CCCTGCGCCC CGGGCGCCCT
1051  CGCCTGCCAT CACGCGTTCG GAGGCTGGGG GACCCTGGTC AACCCCACGG
1101  GGCTGGCGCT GTGCCCCAAG ACCGGGCGGG TCGTGGTGGT GCACGACGGC
1151  AGGAGGCGGG TCAAGATCTT TGACTCCGGG GGAGGATGCG CCCATCAGTT
1201  TGGAGAGAAG GGGGAGGCTG CCCAGGACAT TAGGTACCCC CTGGACGTCG
1251  CCGTCACCAA CGACTGCCAC GTGGTTGTCA CCGACGCCGG CGACCGCTCC
1301  ATCAAAGTGT TTGATTTCTT TGGCCAGATC AAGCTCGTCA TTGGAGACCA
1351  GTTTTCCTTA CCTTGGGGCG TGGAGACCAC CCCTCAGAAT GGGGTCGTGG
1401  TAACTGACGC CGAGGCAGGG TCGCTGCACC TGCTGGAAGT CGACTTTGCA
1451  GAAGGAGCCC TCCAGAGGAC TGAAAAGCTG CAAGGTCATC TGTGCAACCC
1501  GCGAGGGGTG GCCGTGTCCT GGCTCACTGG GGCCATTGCG GTCCTGGAGC
1551  ACCCTCCGGG GCTGGGGGCT GGGGCGGGCA GCACCGCCGT GAAGGTGTTC
1601  AGCCCAACTA TGCAGCTGAT CGGCCAGGTG GATACCTTTG GGCTCAGCCT
1651  CTTTTTCCCC TCTAGAATAA CCGCCTCCGC CGTGACCTTT GATCACCAGG
1701  GGAATGTGAT TGTTGCAGAT ACTTCTAGTC AGGCCGTCCT ATGCTTGGGA
1751  CAGCCTGAGG AATTTCCAGT CCTGAAGCCC ATCATCACCC ATGGTCTTTC
1801  CCATCCTGTG GCACTGACCT TCACCAAGGA GAATTCTCTT CTTGTGCTGG
1851  ACAGTGCAGC CCATTCCGTA AAAGTCTACA AGGCTGACTG GGGGTAA
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SEQ ID NO: 3

Appl'n No.: 10/567,074
Title: Lafora's Disease Gene
Inventors: Stephen W. Scherer, et al.
Annotated Sheet
WO 2005

2004/001449

11/15

Fig 7B

```
Met Gly Ala Glu Ala Ala Gly Ser Gly Arg Ala Leu Arg Glu Leu Val
1         5             10            15

Arg Glu Ala Glu Val Ser Leu Leu Glu Cys Lys Val Cys Phe Glu Arg
        20            25            30

Phe Gly His Arg Gln Gln Arg Arg Pro Arg Asn Leu Pro Cys Gly His
        35            40            45

Val Val Cys Leu Ala Cys Val Ala Ala Leu Ala His Pro Arg Thr Leu
    50            55            60

Ala Leu Glu Cys Pro Phe Cys Arg Arg Ala Cys Arg Gly Cys Asp Thr
65            70            75            80

Ser Asp Cys Leu Pro Val Leu His Leu Leu Glu Leu Leu Gly Ser Ala
            85            90            95

Leu Arg Pro Ala Pro Ala Ala Pro Arg Ala Ala Pro Arg Ala Ala Pro
        100           105           110

Cys Ala Pro Gly Ala Leu Ala Cys His His Ala Phe Gly Gly Trp Gly
        115           120           125

Thr Leu Val Asn Pro Thr Gly Leu Ala Leu Cys Pro Lys Thr Gly Arg
    130           135           140

Val Val Val Val His Asp Gly Arg Arg Arg Val Lys Ile Phe Asp Ser
145           150           155           160

Gly Gly Gly Cys Ala His Gln Phe Gly Glu Lys Gly Glu Ala Ala Gln
            165           170           175

Asp Ile Arg Tyr Pro Leu Asp Val Ala Val Thr Asn Asp Cys His Val
        180           185           190

Val Val Thr Asp Ala Gly Asp Arg Ser Ile Lys Val Phe Asp Phe Phe
    195           200           205

Gly Gln Ile Lys Leu Val Ile Gly Asp Gln Phe Ser Leu Pro Trp Gly
210           215           220
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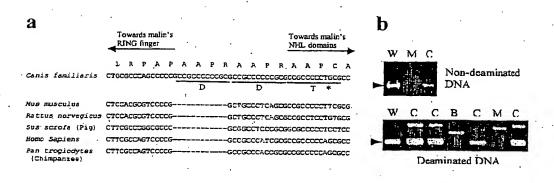
SEQ ID NO: 4

Appl'n No.: 10/567,074
Title: Lafora's Disease Gene
Inventors: Stephen W. Scherer, et al.
Annotated Sheet

WO 2005/0125:   )1449

15/15

a

Towards malin's   Towards malin's
RING finger   NHL domains

L R P A P A A P R A A P R A A P C A
Canis familiaris   CTGCGCCCAGCCCCCGCCGCCCCCGCGCCGCCCCCGCGCCGCCCCCTGCGCC
                                D   D   T *

Mus musculus   CTCCACGCGTCCCCG-----------GCTGCCCTCAGCGCCGCCCCCTTCGCG
Rattus norvegicus CTCCACGCGTCCCCG-----------GCTGCCCTC--GCGCCGCCTCCTGTGCG
Sus scrofa (Pig)   CTTCGCCCGGCGCCC-----------GCGGCCTCCCGCGGCGCCCCCTCCTCC
Homo Sapiens   CTTCGCCAGTCCCCG-----------GCCGCCCATCGGCGCCGCCCCCAGCGCC
Pan troglodytes   CTTCGCCAGTCCCCG-------GCCGCCCACCGCGCCGCCCCCAGCGCG
(Chimpanzee)

b

W M C

Non-deaminated
DNA

W C C B C M C

Deaminated DNA

c

7.9±1.5

0.006±0.001

Unaffected   Affected
(n=2)   (n=3)

Felidae
Canidae

d

Canoidae   Arctoidae

60Ma   50Ma   10Ma

Felis catus   AGCCCCC-------------GCCGCCCACCGCGCGCGCCCCCAGCGCC
Panthera leo (Lion)   AGCCCCC-------------GCCGCCCACCGCGGCGCGCCCCAGCGCC
Panthera tigris (Tiger) AGCCCCC-----------GCCGCCCACCGCGGCGCCCCCCAGCGCC
Panthera pardus (Leopard) AGCCCCC-------GCCGCCCACCGCGCGCGCCCCCAGCGCC
Panthera uncia (Snow Leopard)AGCCCCC----------GCCGCCCACGCGCGCGCCCCAGCGCC
Acinonyx jubatus (Cheetah) AGCCCCC------------GCCGCCCACCGCGGCGCCCCCAGCGCC
Lynx caracal (Lynx)   AGCCCCC-----------GCCGCCCACCGCGCGCGCCCCCAGCGCC

Canis familiaris   AGCCCCCGCGGCCCCCGCGCGCCGCCCCCGCGCCGCCCCCTGCGCC
                      AGCCCCC------------GCCGCCCCGCGCGCCGCCCCCTGCGCC
Canis lupus Dingo   AGCCCCCGCGGCCCCCCGCGCGCCGCCCCGCGCCGCCCCTGCGCC
                      AGCCCCC------------GCCGCCCCGCGCGCCGCCCCCTGCGCC
Canis lupus (Grey Wolf) AGCCCCGCGGCCCCCCGCGCGCCGCCCCGCGCCGCCCCCTGCGCC
                      AGCCCCC------------GCCGCCCCGCGCGCCGCCCCCTGCGCC
Canis rufus (Red Wolf) AGCCCCCGCGGCCCCCCGCGCGCCGCCCCGCGCCGCCCCTGCGCC
                      AGCCCCC-------------GCCGCCCCGCGCGCCGCCCCCTGCGCC
Canis latrans (Coyote) AGCCCCGCGGCCCCCCGCGCGCCGCCCCGCGCCGCCCCCTGCGCC
                      AGCCCCC-----------GCCGCCCCGCGCGCCGCCCCCTGCGCC
Canis aureus (Golden Jackal) AGCCCCGCGGCCCCCCGCGCGCCGCCCCGCGCCGCCCCTGCGCC
                      AGCCCCC-------------GCCGCCCCGCGCGCCGCCCCCTGCGCC
Cuon alpinus (Dhole) AGCCCCGCGGCCCCCCGCGCGCCGCCCCGCGCCGCCCCCTGCGCC
Dusicyon griseus (Grey Fox) AGCCCCGCGGCCCCCCGCGCGCCGCCCCGCGCCGCCCCCTGCGCC
                      AGCCCCC-----------GCCGCCCCGCGCGCCGCCCCCTGCGCC
Urocyon littoralis (Isl. Fox) AGCCCCC-----------GCCGCCCCGCGCGCCGCCCCCTGCGCC

Conepatus semistriatus (Skunk) AGGCCCC-------------GCCGCCCCGCGCGCCGCCCCCTGCGCC
Ursus americanus (Black Bear) AGCCCCC-------------GCCGCCCCGCGCGCCGCCCCCTGCPGC
                      AGGCCCC------------GCCGCCCCGCGCCGCCTCCCTGCGCC
Ursus maritimus (Polar Bear) AGCCCCC------------GCCGCCCCGGCGCCGCCCCCTGCAGC
Ursus arctos (Brown Bear) AGGCCCC-----------GCCGCCCCGCGCGCCGCCCCCTGCAGC
                      AGCCCCC-----------GCCGCCCCGCGCGCCGCCCCCTGCPGC
Ursus arctos horribilis (Grizzly)CCCC-------------GCCGCCCCCGCGCGCCGCCCCCTGCAGC
Procyonidae lotor (Raccoon) AGGCCCC-------------GCCGCCCCGCGCGCCGCTCCCTGCGCC
Potos flavus (Kinkajou) AGGCCCC-----------GCCGCCCCGCGCGCCGCCCCCTGCACC
Bessaricyon beddari (Beddard) AGGCCCC-----------GCCGCCCCGCGCCGCCGCTCCCTGCGCC
Nasua nasua (Ringtailed Coati)AGGCCCC----------GCCGCCCCCGCGCGCCGCGCCCCTGCGCC
Gulo gulo (Wolverino) AGGCCCC----------GCCGCCCCGCGCGCCGCCCCTGCGCC
Galictis vittata (Grison) AGGCCCC-----------GCCGCCCCGCGCGCCGC3CCCTGCGCC
Mustela vison (American Mink) AGGCCCC----------GCCGCCCCGCGCGCCGCCCCTGCGCC
Martes pennanti (Fisher) AGTCCCC-----------GCCGCCCCGCGCGCCGTGCCCTGCGCC
Lutra canadiens (Otter) AGGCCCC----------GCCGCCCCGCGCGCCGCCGGTGCGCC
L. maculicollis (Spotted-neck Otter)C-------------GCCGCCCCCGCGGCGCGCJCCCTGCGCC
Melogale moschata AGGCCCC---------GCCGCCCCCGCGCGCGCJCCGTGCGCC
(Chinese Ferret Badger)

Fig 10

SEQ. ID NOS: 6-52

Appl'n No.: 10/567,074
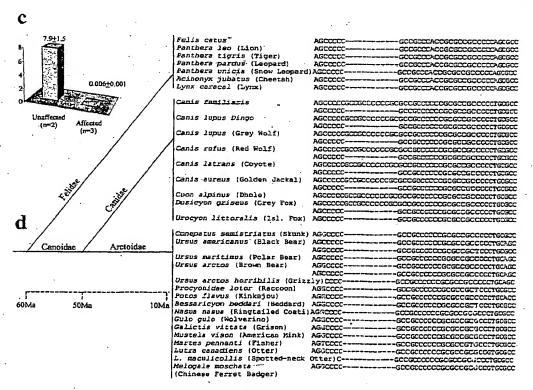Title: Lafora's Disease Gene
Inventors: Stephen W. Scherer, et al.
Replacement Sheet

WO 2005/01   4/001449

6/15

Fig 6A

```
   1 atggcggccg aagcctcgga gagcgggcca gcgctgcatg agctcatgcg cgaggcggag
  61 atcagcctgc tcgagtgcaa ggtgtgcttt gagaagtttg gccaccggca gcagcggcgc
 121 ccgcgcaacc tgtcctgcgg ccacgtggtc tgcctggcct gcgtggccgc cctggcgcac
 181 ccgcgcactc tggccctcga gtgcccattc tgcaggcgag cttgccgggg ctgcgacacc
 241 agcgactgcc tgccggtgct gcacctcata gagctcctgg gctcagcgct tcgccagtcc
 301 ccggccgccc atcgcgccgc ccccagcgcc cccggagccc tcacctgcca ccacaccttc
 361 ggcggctggg ggaccctggt caaccccacc ggactggcgc tttgtcccaa gacggggcgt
 421 gtcgtggtgg tgcacgacgg caggaggcgt gtcaagattt ttgactcagg gggaggatgc
 481 gcgcatcagt ttggagagaa gggggacgct gcccaagaca ttaggtaccc tgtggatgtc
 541 accatcacca acgactgcca tgtggttgtc actgacgccg gcgatcgctc catcaaagtg
 601 tttgattttt ttggccagat caagcttgtc attggaggcc aattctcctt accttggggt
 661 gtggagacca cccctcagaa tgggattgtg gtaactgatg cggaggcagg gtccctgcac
 721 ctcctggacg tcgacttcgc ggaaggggtc cttcggagaa ctgaaaggtt gcaagctcat
 781 ctgtgcaatc cccgaggggt ggcagtgtct ggctcaccg gggccattgc ggtcctggag
 841 caccccctgg ccctggggac tggggtttgc agcaccaggg tgaaagtgtt tagctcaagt
 901 atgcagcttg tcggccaagt ggataccttt gggctgagcc tctactttcc ctccaaaata
 961 actgcctccg ctgtgacctt tgatcaccag ggaaatgtga ttgttgcaga tacatctggt
1021 ccagctatcc tttgcttagg aaaacctgag gagtttccag taccgaagcc catggtcact
1081 catggtcttt cgcatcctgt ggctcttacc ttcaccaagg agaattctct tcttgtgctg
1141 gacacagcat ctcattctat aaaagtctat aaagttgact gggggtgatg ggctggggtg
1201 ggtccctgga atcagaagca ctagtgctgc cattaatgaa ttgtttaacc ctggataagt
1261 cacttaaact catctatcca ggcagggata attaaaacca tctggcagac ttacaaagct
1321 tgggacagtt attggagatt aatctaccat ttattgaatg catactctgt gcaggaaat
1381 ttgcaaatat tagcttattt aatctgtact atccagtgag gtaatttctt ccccccaag
1441 atagagtcaa gctctgtcac ccaggctgga gtgcagaagc atgatcacag ctcactacag
```

SEQ ID NO: 1

Appl'n No.: 10/567,074
Title: Lafora's Disease Gene
Inventors: Stephen W. Scherer, et al.
WO 2005/01252   Replacement Sheet   1449

8/15

Fig 6B

EPM2B protein sequence

MAAEASESGPALHELMREAEISLLECKVCFEKFGHRQQRRPRNLSCGHVV
CLACVAALAHPRTLALECPFCRRACRGCDTSDCLPVLHLIELLGSALRQS
PAAHRAAPSAPGALTCHHTFGGWGTLVNPTGLALCPKTGRVVVVHDGRRR
VKIFDSGGGCAHQFGEKGDAAQDIRYPVDVTITNDCHVVVTDAGDRSIKV
FDFFGQIKLVIGGQFSLPWGVETTPQNGIVVTDAEAGSLHLLDVDFAEGV
LRRTERLQAHLCNPRGVAVSWLTGAIAVLEHPLALGTGVCSTRVKVFSSS
MQLVGQVDTFGLSLYFPSKITASAVTFDHQGNVIVADTSGPAILCLGKPE
EFPVPKPMVTHGLSHPVALTFTKENSLLVLDTASHSIKVYKVDWG.

SEQ ID NO:2

Appl'n No.: 10/567,074
Title: Lafora's Disease Gene
Inventors: Stephen W. Scherer, et al.
WO 2005/012520
Replacement Sheet
9/15

Fig 7A

Promoter (5') sequence:

```
  1 CCCCAAGGCC CCCCCGGCCC CCAGGCAACC CCAGGCCCCC AGGCAACCCA
 51 AGGCCCCCCG GCCCCAAGCC CCCCAGGTTC CCGGCCCCAA GAACCAAGCC
101 CCCCGGCCCC CCGCCCCCAG CACCCAGCAC CAAGCCCCCG CCCCCCGCCC
151 CAAGCACCCA GCCCCAGCAC CCAGCCCCCG CCCCAGCCCC AGCCCCAGCA
201 CCCAGCCCCC GCCCCAGCAC CCAGCCCCAG CACCCAGCCC CCGCCCCAGC
251 CCCAGCCCCC GTCCCCCCCC CCAGCACCCA GCCCCAGCCC CAGCAGCAGC
301 ACCCAGCAGG GGACTGCAAA GCGTAGGCTA CCCCAGGTGG AACACCGTGT
351 TCTAGTTTTG CTTTGCCGTT TGCAGCCTGG GCGATCGGGG GCCACCGCTC
401 GAGCCTGTTT CCCGTCGCGG AAAGCGGAGC CGCCCCGCCC CGCCCCCCGC
451 CTGCCTGAAG GTCACGGGCC TGGGCCTGCG GCGCGCGGTG CGGCCCGCGA
501 GCGTCCGCTC CCCGCGCCCTC CGCAGTCAGC GCCCGCCCGC CCGCCGGGGG
551 ACCGCAGGCC GCGGCCGAGA GGCTGCGCGC TGCGCCCGCG ACGTCAGGCC
601 CCGCCCCGCC CCGCCCCGCC CCGTGACCGG CCCCGGCCCC GGCCCCGGCC
651 CCGGCCCCGG ACCGAGCGGC GCCCGCGGGA GCGGCGGCGG CCGCGCG
```

Coding sequence:

```
        ATG
701 GGGGCCGAAG CGGCGGGGAG CGGGCGGGCG CTGCGGGAGC TGGTGCGCGA
751 GGCCGAGGTC AGCTTGCTCG AGTGCAAGGT GTGCTTCGAG AGGTTCGGCC
801 ACCGCCAGCA GCGGCGCCCG CGCAACCTGC CCTGCGGCCA CGTGGTGTGC
851 CTGGCCTGCG TGGCGGCCCT GGCGCACCCG CGGACGCTGG CCCTGGAGTG
901 CCCCTTCTGC CGCCGGGCCT GCCGCGGCTG CGACACCAGC GACTGCCTGC
951 CGGTGCTTCA CCTCCTGGAG CTCCTGGGCT CGGCGCTGCG CCCAGCCCCC
1001 GCCGCCCCCC GCGCCGCCCC CCGCGCCGCC CCCTGCGCCC CGGGCGCCCT
1051 CGCCTGCCAT CACGCGTTCG GAGGCTGGGG GACCCTGGTC AACCCCACGG
1101 GGCTGGCGCT GTGCCCCAAG ACCGGGCGGG TCGTGGTGGT GCACGACGGC
1151 AGGAGGCGGG TCAAGATCTT TGACTCCGGG GGAGGATGCG CCCATCAGTT
1201 TGGAGAGAAG GGGGAGGCTG CCCAGGACAT TAGGTACCCC CTGGACGTCG
1251 CCGTCACCAA CGACTGCCAC GTGGTTGTCA CCGACGCCGG CGACCGCTCC
1301 ATCAAAGTGT TTGATTTCTT TGGCCAGATC AAGCTCGTCA TTGGAGACCA
1351 GTTTTCCTTA CCTTGGGGCG TGGAGACCAC CCCTCAGAAT GGGGTCGTGG
1401 TAACTGACGC CGAGGCAGGG TCGCTGCACC TGCTGGAAGT CGACTTTGCA
1451 GAAGGAGCCC TCCAGAGGAC TGAAAAGCTG CAAGGTCATC TGTGCAACCC
1501 GCGAGGGGTG GCCGTGTCCT GGCTCACTGG GGCCATTGCG GTCCTGGAGC
1551 ACCCTCCGGG GCTGGGGGCT GGGGCGGGCA GCACCGCCGT GAAGGTGTTC
1601 AGCCCAACTA TGCAGCTGAT CGGCCAGGTG GATACCTTTG GGCTCAGCCT
1651 CTTTTTCCCC TCTAGAATAA CCGCCTCCGC CGTGACCTTT GATCACCAGG
1701 GGAATGTGAT TGTTGCAGAT ACTTCTAGTC AGGCCGTCCT ATGCTTGGGA
1751 CAGCCTGAGG AATTTCCAGT CCTGAAGCCC ATCATCACCC ATGGTCTTTC
1801 CCATCCTGTG GCACTGACCT TCACCAAGGA GAATTCTCTT CTTGTGCTGG
1851 ACAGTGCAGC CCATTCCGTA AAAGTCTACA AGGCTGACTG GGGGTAA
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SEQ ID NO: 3

Appl'n No.: 10/567,074
Title: Lafora's Disease Gene
Inventors: Stephen W. Scherer, et al.
Replacement Sheet

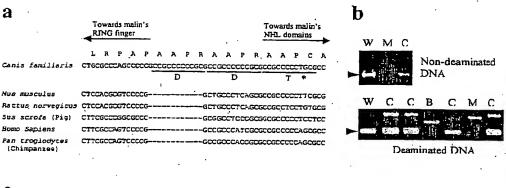WO 2005/01   4/001449

11/15

Fig 7B

```
Met Gly Ala Glu Ala Ala Gly Ser Gly Arg Ala Leu Arg Glu Leu Val
1           5               10              15

Arg Glu Ala Glu Val Ser Leu Leu Glu Cys Lys Val Cys Phe Glu Arg
            20              25              30

Phe Gly His Arg Gln Gln Arg Arg Pro Arg Asn Leu Pro Cys Gly His
        35              40              45

Val Val Cys Leu Ala Cys Val Ala Ala Leu Ala His Pro Arg Thr Leu
    50              55              60

Ala Leu Glu Cys Pro Phe Cys Arg Arg Ala Cys Arg Gly Cys Asp Thr
65              70              75              80

Ser Asp Cys Leu Pro Val Leu His Leu Leu Glu Leu Leu Gly Ser Ala
            85              90              95

Leu Arg Pro Ala Pro Ala Ala Pro Arg Ala Ala Pro Arg Ala Ala Pro
        100             105             110

Cys Ala Pro Gly Ala Leu Ala Cys His His Ala Phe Gly Gly Trp Gly
        115             120             125

Thr Leu Val Asn Pro Thr Gly Leu Ala Leu Cys Pro Lys Thr Gly Arg
    130             135             140

Val Val Val Val His Asp Gly Arg Arg Arg Val Lys Ile Phe Asp Ser
145             150             155             160

Gly Gly Gly Cys Ala His Gln Phe Gly Glu Lys Gly Glu Ala Ala Gln
            165             170             175

Asp Ile Arg Tyr Pro Leu Asp Val Ala Val Thr Asn Asp Cys His Val
            180             185             190

Val Val Thr Asp Ala Gly Asp Arg Ser Ile Lys Val Phe Asp Phe Phe
        195             200             205

Gly Gln Ile Lys Leu Val Ile Gly Asp Gln Phe Ser Leu Pro Trp Gly
    210             215             220
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SEQ ID NO: 4

Appl'n No.: 10/567,074
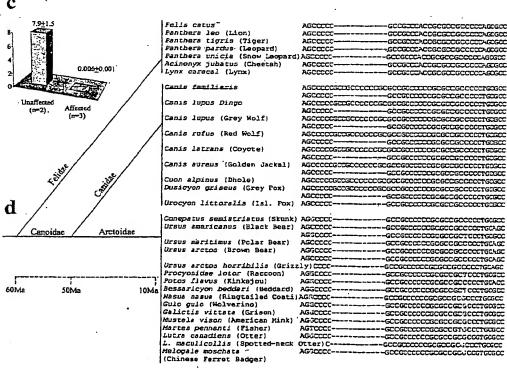Title: Lafora's Disease Gene
Inventors: Stephen W. Scherer, et al.
WO 2005/012526
Replacement Sheet
149

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Fig 10

SEQ ID NOS: 6-52